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- (71) Applicant (*for all designated States except US*): **VIRGINIA TECH INTELLECTUAL PROPERTIES, INC.** [US/US]; 1872 Pratt Drive, Suite 1625, Blacksburg, VA 24060 (US).
- (72) Inventors; and
- (75) Inventors/Applicants (*for US only*): **DORN, Harry, C.** [US/US]; 101 Fincastle Drive, Blacksburg, VA 24060 (US). **McKEE, Clayton** [US/US]; 11900 Cardinal Court, N.W., Apt. C, Blacksburg, VA 24060 (US). **DUCHAMP, Jim** [US/US]; P.O. Box 78, Emory, VA 24327 (US).
- (74) Agent: **LANE, Phillip, D.**; McGuireWoods, LLP, Suite 1800, 1750 Tysons Boulevard, McLean, VA 22102 (US).
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(54) Title: **LOW TEMPERATURE METHOD FOR PREPARING TRIMETALLIC NITRIDE ENDOHEDRAL METALLO-FULLERENES**

(57) Abstract: A method for forming trimetallic nitride endohedral metallofullerenes having the general formula $A_{3-n}X_nN@C_m$, wherein A is a first metal, X is an optional second metal, n is an integer from 0-3, and m is an even integer from about 60 to about 200 is described. The method includes heating a mixture of carbon, a first metal, an optional second metal, and a nitrogen containing compound in a reactor that has been sealed under vacuum at a temperature and for a time effective to form trimetallic nitride endohedral metallofullerenes.